

JAPIO

```
8      676  1 AND  3
9      1    8 AND ( 4 OR  5)
10     0    8 AND  6
11     1    9
12     22435 SYNCHRONIZATION
13     49903 SYNCHRONIZE OR SYNCHRONIZING
14     725117 12 OR 13 OR 14
15     3999  1 AND 14
16     1    15 AND ( 4 OR  5)
17     1    15 AND (COMPAR+ (3D) (DATE# OR TIME#))
18     1    16
```

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1/1 JAPIO - (C) JPO

PN - JP 06028199 A 19940204 [JP06028199]

TI - PARALLEL PROCESSING SYNCHRONIZING METHOD

IN - ASHLAD YETURU; CHANG DANIEL T

PA - INTERNATL BUSINESS MACH CORP <IBM>

AP - JP03539091 19910205 [1991JP-0035390]

PR - US90 488647 19900305 [1990US-0488647]

IC1 - G06F-009/46

AB - PURPOSE: To synchronize parallel processings in a computer system.

- CONSTITUTION: If a message has a reception time, which is longer than the present virtual time of processing or is equal to that of a queue at the time when the message is received and is operated by the processing, consistency of the state is supposed. When guard check can be used, guard must be satisfied preferably before operation of this message. If the reception time of the message is earlier than the present virtual time, consistency of the state is checked again. This consistency check includes check of consistency of the variable version and guard. When the state of the processing matches contents of the message, this message can be processed even if the present virtual time is later than the reception time of the message. A similar general method can be used in one processing having parallel operations where shared variables are checked for consistency of the state by the virtual timestamp and the variable version.

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SS Results

```
1      28726 MESSAGE# OR MESSAG+
2      95    INBOUND
3      115434 SYNCHRON+
4      0     TIMESTAMP#
5      8     TIMESTAMP+
```

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